

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

1. **(Currently Amended)** An apparatus for restoring an aortic valve having an aortic annulus and a sinotubular junction, the apparatus comprising:

a) a ~~band-type~~ discontinuous aortic annulus ~~repairing stabilizing apparatus device~~ sized and configured to be implanted proximate the aortic annulus of the aortic valve ~~that uniformly stabilizes~~ for uniformly stabilizing a diameter of ~~[[an]]~~ the aortic annulus~~[[,]]; and the aortic annulus, the aortic annulus repairing apparatus comprising:~~

~~an inner band stabilizer, which stabilizes the diameter of the aortic annulus from inside an aortic lumen, and~~

~~an outer band felt stabilizer, which supports the diameter of the aortic annulus from outside of the aortic lumen; and~~

b) a ~~ring-type~~ continuous sinotubular junction ~~repairing stabilizing apparatus device~~ sized and configured to be implanted proximate the sinotubular junction of the aortic valve ~~junction that uniformly stabilizes~~ for uniformly stabilizing a diameter of ~~[[a]]~~ the sinotubular junction~~, the sinotubular junction repairing apparatus comprising:~~

~~an inner ring stabilizer that stabilizes the diameter of the sinotubular junction from inside a sinotubular junction; and,~~

~~an outer ring felt stabilizer that supports the diameter of the sinotubular junction from outside of the sinotubular junction.~~

2. **(Cancelled)**

3. **(Cancelled)**

4. **(Currently Amended)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein a sewing passage of the ~~inner band stabilizer~~ discontinuous aortic annulus stabilizing device is formed thinner than a surrounding area in order to adhere the ~~inner band stabilizer~~ discontinuous aortic annulus stabilizing device tightly to a wall of ~~[[the]]~~ an aortic lumen associated with the aortic valve.

5. **(Currently Amended)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein ~~both the inner ring stabilizer and the outer ring felt stabilizer have~~ the continuous sinotubular junction stabilizing device has three equally spaced markers on ~~[[a]]~~ its circumference, which enables determination ~~[[the]]~~ of an orientation of the ~~stabilizers~~ continuous sinotubular junction stabilizing device.

6. **(Currently Amended)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein the ~~inner band stabilizer and outer band felt stabilizer each have~~ discontinuous aortic annulus stabilizing device has vertical marks on both ends thereof in order to fix only a fibrous part of the aortic annulus, and have an extra margin of about 2 mm outside of a vertical line which enables stabilization to be more easily accomplished.

7. **(Currently Amended)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein the ~~inner band stabilizer and outer band felt stabilizer are~~ discontinuous aortic annulus stabilizing device is made of a synthetic fiber or a biological material that is harmless to humans.

8-9. **(Cancelled)**

10. **(Currently Amended)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein a suture passage of the ~~inner ring stabilizer~~ continuous sinotubular junction stabilizing device is formed to be thinner than a surrounding part in order to adhere the ~~stabilizer~~ continuous sinotubular junction stabilizing device tightly to a surrounding wall in the sinotubular junction.

11. **(Cancelled)**

12. **(Currently Amended)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein the ~~inner ring stabilizer and outer ring felt stabilizer~~ are continuous sinotubular junction stabilizing device is made of any synthetic fiber or a biological material that is harmless to humans.

13. **(Currently Amended)** A treatment method for aortic valvular regurgitation comprising:

implanting a ~~band type~~ discontinuous aortic annulus stabilizing device proximate an aortic annulus of an aortic valve; and inner stabilizer inside of an aortic lumen,

~~placing a band type annulus outer felt stabilizer on the outside of the aortic lumen to support the aortic annulus inner stabilizer, thus maintaining the aortic annulus at a constant diameter; and~~

implanting a ~~STJ ring type inner stabilizer~~ continuous sinotubular junction stabilizing device proximate the on the inside of the sinotubular junction of the aortic valve.; and

~~placing a STJ ring type outer felt stabilizer on the outside of the sinotubular junction to support the STJ ring type inner stabilizer, thus maintaining the sinotubular junction at a constant diameter.~~

14. **(Cancelled)**

15. **(Currently Amended)** The method for restoring an aortic valve as set forth in claim 13, wherein the ~~inner stabilizer and the outer felt stabilizer of the ring type continuous sinotubular junction stabilizing device~~ have has three equally spaced markers on ~~their~~ its circumference, which enables determination of ~~the directions~~ an orientation of the stabilizers continuous sinotubular junction stabilizing device.

16. **(Currently Amended)** The method for restoring an aortic valve as set forth in claim 13, wherein the ~~inner stabilizer and outer felt stabilizer of the band type discontinuous aortic annulus stabilizing device, respectively, have~~ has vertical marks on both ends thereof in order to fix only a fibrous part of the aortic annulus, and ~~have~~ has an extra margin of about 2 mm outside of ~~[[the]]~~ a vertical line which enables the stabilization to be more easily accomplished.

17. **(Currently Amended)** The method for restoring an aortic valve as set forth in claim 13, wherein the ~~inner ring stabilizer and the outer ring felt stabilizer are~~ continuous sinotubular junction stabilizing device is made of a synthetic fiber or a biological material that is harmless to humans.

18. **(Currently Amended)** The method for restoring an aortic valve as set forth in claim 13, wherein the ~~inner band stabilizer and the outer band felt stabilizer are~~ discontinuous aortic annulus stabilizing device is made of a synthetic fiber or a biological material that is harmless to humans.

19-21. **(Cancelled)**

22. **(New)** The apparatus for restoring an aortic valve as set forth in claim 1, wherein the apparatus does not have a graft or flexible tubular structure connecting the discontinuous aortic annulus stabilizing device and the continuous sinotubular junction stabilizing device.

23. **(New)** The method of restoring an aortic valve as set forth in claim 13, wherein no graft or flexible tubular structure is used between the discontinuous aortic annulus stabilizing device and the continuous sinotubular junction stabilizing device.

24. **(New)** The apparatus for restoring an aortic valve as set forth in claim 4, wherein a second discontinuous aortic annulus stabilizing device is placed on an outside surface of the wall.

25. **(New)** The apparatus for restoring an aortic valve as set forth in claim 10, wherein a second continuous sinotubular junction stabilizing device is placed outside of the sinotubular junction of an ascending aorta.